



PRODUCT FEATURES

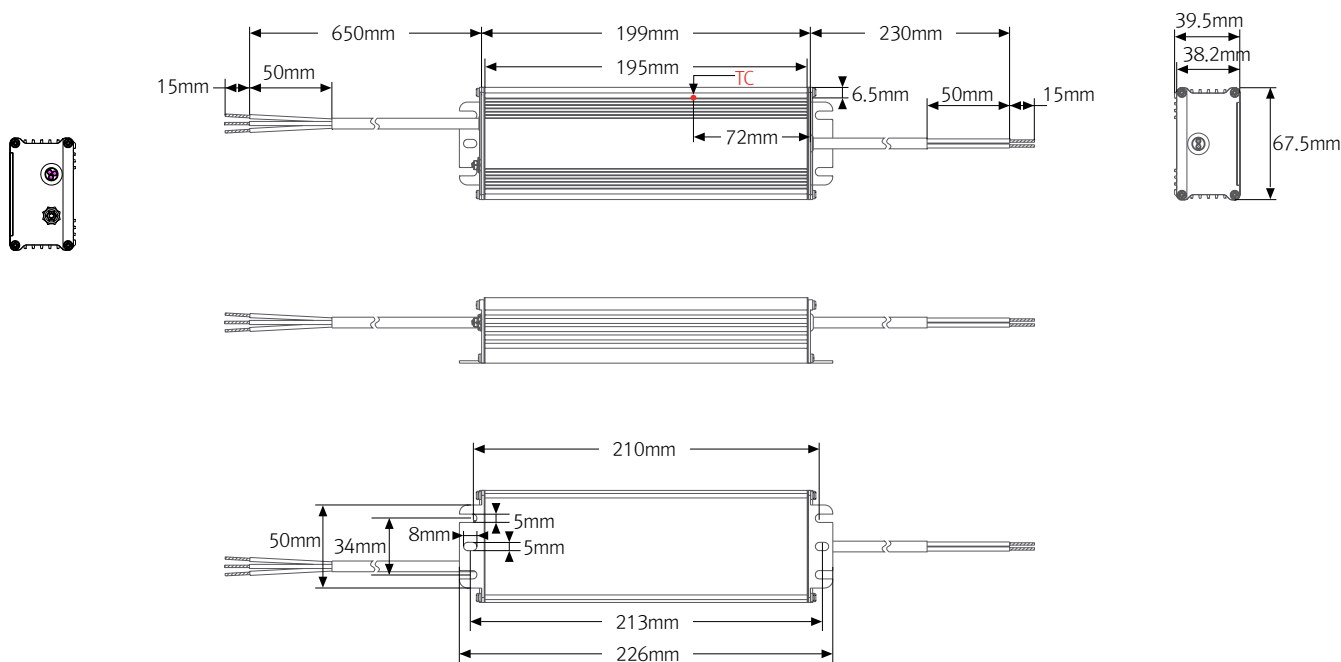
- High Efficiency (Up to 92.5%)
- Constant Voltage Output
- Input Surge Protection: DM 4kV, CM 6kV
- All-Around Protection: OVP, OCP, SCP, OTP
- IP67
- SELV Output
- 5 Years Warranty

MODELS



Model Number	Output Voltage	Input Voltage Range	Output Current Range	Max. Output Power	Typical Efficiency	Power Factor	
						120Vac	220Vac
FLC200-24V-P	90 ~ 305 Vac	75mm	0~8.33 A	200 W	92.0%	0.99	0.97

DIMENSION



SPECIFICATION

1. Input Specifications (Continued)

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	90 Vac	-	305 Vac	
Input Frequency	47 Hz	-	63 Hz	
Leakage Current	-	-	0.70 mA	IEC60598-1; 240Vac/ 60Hz, grounding effectively
Input AC Current	-	-	2.5 A	Measured at 100% load and 100 Vac input.
	-	-	1.1 A	Measured at 100% load and 220 Vac input.
Inrush Current(I _{2t})	-	-	1.5 A _{2s}	At 220Vac input 25°C Cold Start, duration=1.2 ms, 10%I _{pk} -10%I _{pk}
PF	0.90	-	-	At 100-240 Vac, 50-60Hz, 100% Load
THD	-	-	20%	

2. Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Voltage Tolerance	-2.5%	-	2.5%	FLC200-24V-P. At 100% load condition.
	-5%	-	5%	Others. At 100 % load condition.
Ripple and Noise (pk-pk)	-	-	2% V _o	Measured by 20 MHz bandwidth oscilloscope and the output paralleled a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor.
Output Overshoot / Undershoot	-	-	10%	When power on or off.
Line Regulation	-	-	±1%	At 100% load condition.
Load Regulation	-	-	±2%	
Turn-on Delay Time	-	0.9 s	1.5 s	Measured at 110Vac input, 100% Load
	-	0.5 s	1.0 s	Measured at 220Vac input, 100% Load
Load Dynamic Response	Output Deviation		5% V _o	R/S: 1 A/uS Load: 25% ~ 75% 100% load.
	Settling Time		10 mS	
Temperature coefficient	-	0.05%/ C	-	Case temperature = 0 C ~ T _c max

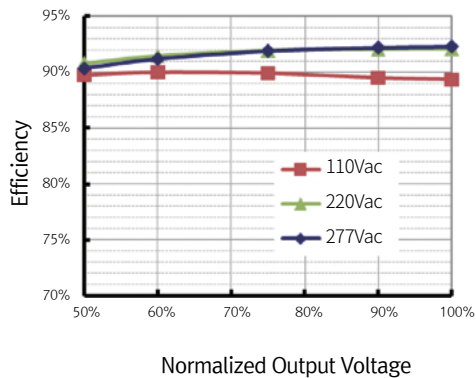
3. General Specifications

Parameter	Min.	Typ.	Max.	Notes
MTBF	-	276,000 hours	-	Measured at 110Vac input, 80%Load and 25 C ambient temperature (MIL-HDBK-217F)
Lifetime	-	95,200 hours	-	Measured at 220Vac input, 80%Load and 60 C case temperature; See life time vs. T _c curve for the details
Operating Case Temperature for Safety T _{c_s}	-35 °C	-	+90 °C	@90-305 Vac
	-40 °C	-	+90 °C	@198-305 Vac
Operating Case Temperature for Warranty T _{c_w}	-35 °C	-	+70 °C	@90-305 Vac, Case temperature for 5 years warranty
	-40 °C	-	+70 °C	@198-305 Vac, Case temperature for 5 years warranty
Storage Temperature	-40 °C	-	+85 °C	Humidity: 5% RH to 100% RH
Dimensions Inches (L × W × H) Millimeters (L × W × H)	7.83 × 2.66 × 1.56 199 × 67.5 × 39.5			With mounting ear 8.90 × 2.66 × 1.56 226 × 67.5 × 39.5
Net Weight	-	1150 g	-	

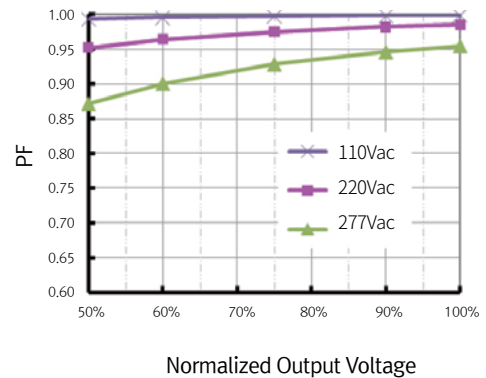
4. Protection Functions

Parameter	Min.	Typ.	Max.	Notes
Over Current Protection	120% lo	140% lo	200% lo	Hiccup mode. The power supply shall be selfrecovery when the fault condition is removed.
Over Temperature Protection	Auto Recovery, returning to normal after over temperature is removed.			
Short Circuit Protection	No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed.			
Over Voltage Protection	Limits output voltage at no load and in case the normal voltage limit fails.			

EFFICIENCY vs. OUTPUT VOLTAGE(24V)



PF vs. OUTPUT VOLTAGE(24V)



THD vs. OUTPUT VOLTAGE(24V)

